

The Honorable Julius Genachowski  
Chairman  
U.S. Federal Communications Commission  
445 12<sup>th</sup> Street, SW  
Washington, D.C. 20554

Subject: **IB Docket Number 11-109.** FCC File No. SAT-Mod-20101118-00239, LightSquared  
Subsidiary LLC (LightSquared) Request for Modification of its Authority for an Ancillary Terrestrial  
Component

Dear Chairman Genachowski:

*I am Jack Pappas and a serial entrepreneur. I am on the Board of the Lexington Park Rotary and past president of the SEAFARER UAV chapter as well as past MD State President of the Navy League, Navy Alliance, Patuxent Partnership, and various other civic activities.*

*I am also a pilot and use GPS for navigational purposes. I am very concerned about the frequency used by LightSquared and its impact on GPS.*

As a member of the unmanned systems community, I am deeply concerned about a current waiver request from LightSquared to operate high-powered terrestrial transmitters on a radio frequency adjacent to the weak satellite-based Global Positioning System (GPS). Independent studies show that LightSquared's terrestrial operations could completely knockout GPS receivers for miles around each transmitter.

Before the Federal Communications Commission grants LightSquared waiver to build tens of thousands of high-powered terrestrial transmitters and use a radio frequency adjacent to GPS, more research and studies must be done.

As you know, all around the world, unmanned systems (air, ground, and maritime) rely on accurate, dependable GPS signals. The lack of a reliable GPS signal poses a serious threat to our public safety and national defense, and the potential expense of retrofitting or replacing affected GPS receivers would truly be an undue burden.

I ask that you take careful consideration of the potential harm LightSquared's proposed plan would have on the emerging field of unmanned systems, not to mention all other users of GPS. Thank you for the opportunity to submit comments for the official record.

Sincerely,

A handwritten signature in black ink, appearing to read "J Pappas". The signature is fluid and cursive, with the first letter of the first name being a large capital 'J'.